

REMARKS/ARGUMENTS

Favorable reconsideration of this application, as presently amended and in light of the following discussion, is respectfully requested.

Claims 24-43 are pending in the application. Claims 24, 30, and 43 are amended, and support for the amendments is found in the Applicant's specification at page 20, line 10 to page 22, line 20 and Figure 4. Applicants note the entry of the Amendment will place the application in better form for appeal and respectfully request that the Examiner enter the Amendment on the record. It is respectfully submitted that no new matter is added by this amendment.

In the outstanding Office Action, Claims 24, 30, and 43 were rejected under 35 U.S.C. § 112, first paragraph, as failing to comply with the written description requirement; Claims 24-28 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Chennakeshu et al. (U.S. Patent No. 6,542,758, hereinafter Chennakeshu) in view of Oda (U.S. Patent No. 6,393,301); Claim 29 was rejected under 35 U.S.C. § 103(a) as being unpatentable over Chennakeshu in view of Oda, further in view of Chen et al. (U.S. Patent No. 5,751,719, hereinafter Chen); Claims 30-33, 39, and 43 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Chennakeshu in view of Paul (U.S. Patent No. 4,087,753), further in view of Chen; Claims 34-36 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Chennakeshu in view of Paul, further in view of Chen, even further in view of Witkowski et al. (U.S. Publication No. 2002/0197955, hereinafter Witkowski); Claims 37, 38, 41, and 42 were rejected under 35 U.S.C. § 103(a) as being unpatentable over the combination of Chennakeshu and Paul, in view of Chen, further in view of Witkowski, even further in view of Levi (U.S. Patent No. 5,678,200); and Claim 40 was rejected under 35 U.S.C. § 103(a) as

being unpatentable over Chennakeshu in view of Paul, further in view of Chen, even further in view of Garnault (U.S. Patent No. 5,929,769).

Figure 4 is amended to change “responce” to –response--, thereby correcting the typographical error.

Briefly recapitulating, amended Claim 24 recites a mobile communication terminal “wherein the connection control section starts a connection procedure with the car mounted electronic device by transmitting a response signal that includes attribute information of the mobile communication terminal to the car mounted electronic device when a paging signal transmitted from the car mounted electronic device to determine presence of a mobile communication terminal within a radio area of the car mounted electronic device is detected.”

Amended Claim 30 recites a car mounted electronic device “wherein the connection control section transmits a paging signal periodically via the radio interface to determine presence of a mobile communication terminal within a radio area of the car mounted electronic device and establishes connection automatically with the mobile communication terminal when a response signal that includes attribute information of the mobile communication terminal is received from the mobile communication terminal.” Amended Claim 43 recites a system including features similar to both mobile communication terminal of amended Claim 24 and the car mounted electronic device of amended Claim 30 discussed above.

The above described features of establishing a connection between the mobile communication terminal and the car mounted electronic device is illustrated in the non-limiting example of Figure 4, as well as in the Applicant’s specification on page 20, line 10 to page 22, line 19. Therefore, it is respectfully submitted that amended independent Claims 24, 30, and 43 satisfy the written description requirement of 35 U.S.C. § 112, first paragraph.

Therefore, in light of the noted support in the original disclosure, it is respectfully submitted that the original disclosure is sufficient to enable one skilled in the art to make or use the invention without undue or unreasonable experimentation, and it is respectfully requested that the rejection to amended Claims 24, 30 and 43 under 35 U.S.C. § 112, first paragraph, be withdrawn.

Chennakeshu describes a radio telephone that includes a base unit mounted within the vehicle, a control unit disposed in the vehicle separate from the base unit, and a local area network for establishing a communication link between the base unit and the control unit.¹ As noted in the outstanding Office Action, Chennakeshu fails to specify a connection procedure between the car mounted electronic device when a paging signal from the car mounted electronic device is detected.² Therefore, Chennakeshu fails to disclose a mobile communication terminal of amended Claim 24 including a connection control section that “starts a connection procedure with the car mounted electronic device by transmitting a response signal that includes attribute information of the mobile communication terminal to the car mounted electronic device when a paging signal transmitted from the car mounted electronic device to determine presence of a mobile communication terminal within a radio area of the car mounted electronic device is detected.”

Oda describes a radio telephone system for use in a vehicle including an accessory mounted in the vehicle and a radio telephone that is separate from the accessory.³ More specifically, the accessory transmits a mode switch signal indicating an operation state of the vehicle to the radio telephone by wireless means, and the radio telephone changes its

¹ Chennakeshu et al., column 2, lines 8-15.

² Office Action mailed August 25, 2004, page 4, lines 21-23.

³ Oda, Abstract.

operation mode depending on the mode switch signal when the mode switch signal is received from the accessory.⁴ However, the mode switch signal is transmitted from the accessory and is designed to control the operation mode of the telephone according to the operation state of the vehicle (i.e., if the vehicle is on, off, or operating at high speed). Oda does not describe that the telephone starts a connection procedure with the accessory by transmitting a response signal that includes attribute information of the telephone. Further, Oda does not describe detecting a paging signal transmitted by the car mounted electronic device for detecting the presence of a mobile communication terminal within a radio area of the car mounted electronic device. Therefore, Oda also does not disclose a mobile communication terminal of amended Claim 24 including a connection control section that “starts a connection procedure with the car mounted electronic device by transmitting a response signal that includes attribute information of the mobile communication terminal to the car mounted electronic device when a paging signal transmitted from the car mounted electronic device to detect the presence of the mobile communication terminal within a radio area of the car mounted electronic device is detected.”

Accordingly, it is respectfully submitted that neither Chennakeshu nor Oda, either alone or in combination, teach or suggest a mobile communication terminal including the connection control section of amended Claim 24. Accordingly, it is respectfully requested that the rejection to amended independent Claim 24 under 35 U.S.C. § 103(a) be withdrawn. Chen has also been considered, but Chen fails to cure the deficiencies of Chennakeshu and Oda discussed above with respect to amended Claim 24.

⁴ Oda, Abstract.

Likewise, it is respectfully submitted that dependent Claims 25-29 are allowable based at least on their dependent recitation of the above described features of amended independent Claim 24 from which they depend. Therefore, it is respectfully requested that the rejection to dependent Claims 25-29 under 35 U.S.C. § 103(a) also be withdrawn.

Paul describes a communication method and apparatus for communicating between a first object and a second object.⁵ More specifically, Paul describes a communication system for communicating between several roadside monitors, a vehicle identification unit, and a warning apparatus that is constructed to provide more efficient, more economic, and faster means for communication between a moving vehicle and the stationary roadside monitors.⁶ Paul describes transmitting an emitted signal including vehicle identification information in response to a transmit signal transmitted by the roadside monitors. However, Paul does not describe a paging signal transmitted by the car mounted electronic of amended Claim 30 “to determine presence of a mobile communication terminal within a radio area of the car mounted electronic device and establishes connection automatically with the mobile communication terminal when a response signal that includes attribute information of the mobile communication terminal is received from the mobile communication terminal.”

Therefore, it is respectfully submitted that Chennakeshu, as discussed above, nor Paul, either alone or in combination, teach or suggest the car mounted electronic device recited in amended Claim 30. The cited references of Chen, Witkowski, Garnault, and Levi have also been considered, but Chen, Witkowski, Garnault, and Levi fail to cure the deficiencies of Chennakeshu and Paul with respect to amended independent Claim 30.

⁵ Paul, Abstract.

⁶ Paul, column 5, lines 3-21.

Likewise, it is respectfully submitted that dependent Claims 31-42 are allowable based at least on their dependent recitation of the above described feature of amended independent Claim 30 from which they depend. Therefore, it is respectfully requested that the rejection to dependent Claims 31-42 under 35 U.S.C. § 103(a) also be withdrawn.

As discussed above amended independent Claim 43 recites a system comprising a mobile communication terminal with features similar to the mobile communication terminal recited of amended Claim 24 and a car mounted electronic device with features similar to the car mounted electronic device of amended Claim 30. As also discussed above, neither Chennakeshu nor Oda, either alone or in combination, teach or suggest a mobile communication terminal including a connection control section as recited in amended Claim 24. Further, neither Chennakeshu nor Paul, either alone or in combination, teach or suggest the car mounted electronic device recited in amended Claim 30.

Therefore, since the system of amended independent Claim 43 includes features similar to the mobile communication terminal of amended independent Claim 24 and features similar to the car mounted electronic device of amended independent Claim 30 as discussed above, no proper combination of the cited references of Chennakeshu, Oda, Paul, Chen, Witkowski, Garnault, and Levi disclose the system recited in amended Claim 43. Accordingly, it is respectfully requested that the rejection to Claim 43 under 35 U.S.C. §103(a) be withdrawn.

CONCLUSION

Consequently, in view of the present amendment and in light of the above comments, favorable consideration of this amendment is felt to be in order, an early and favorable action to that effect is respectfully requested.

Preliminary Amendment
Application No. 09/926,434
Inventor: Toshifumi YAMAMOTO
Title: Mobile Communication Terminal and Car Mounted Electronic Device

Atty. Docket No. 215511US-2S PCT

Respectfully submitted,

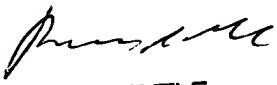
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